

Online Training

- California Energy Commission
 - John Eash
 - Energy Specialist/Licensed Architect
 - 9 + Years at the Commission
 - Developed the "Online Training Series" Videos
 - jeash@energy.state.ca.us or 916-653-7181
 - "Online Training Series"
 - State Funding and Private Sector Funding
 - More than 100 Training Videos Currently Online
 - www.energyvideos.com



The Problem

- Compliance & Enforcement
 - w/State Building Energy Codes
 - Lack of Understanding
 - Low Priority
 - States Have a Lack of "Power"
 - To Fund Training ("No Money!")
 - To Change Attitudes about Energy Codes
 - Updated Codes
 - Legislative Mandates for Training
 - New Codes Require New Training



The Solution

- A National Online Information "Clearing House"
 - Provides Inexpensive Cost Effective Training on SBEC
 - Informative
 - Entertaining
 - E-Learning/Distance Learning
 - Instructive Videos



The Plan of Action

Partner Together for Efficiency

- 1. Make a Decision to Join the Effort
- 2. Each State Designates a "Coordinator"
- 3. Each State Analyzes Needs and Resources
- 4. States Make Joint-Venture Proposal to DOE
- 5. DOE Creates National "Clearing House" Web Site
- 6. DOE Contracts with Production Company



The Plan of Action

Partner Together for Efficiency

- 7. Production Company Also Obtains Private Sector Sponsors
- 8. Create Innovative, Interactive E-Learning
- 9. Provide "One-Shoot" Videos
- 10. Coordinate Videos with Text, Web Casts & Other Tools
- 11. Upload and Stream Videos
- 12. Continual Edits and Changes



Making It Fun!

- Making it Easy
 - Video
 - Informative and Entertaining
 - Better Understanding
 - Fun
 - Better Compliance
 - Enhanced Compliance
- Similar to TV



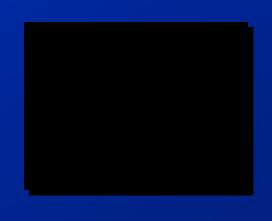
Online Training

- More than 100,000,000
 Americans use the Internet
 - Some use "Dial-up"
 - Increase in High Speed
 - •T1, Cable Modem, DSL
 - •30 Million People Up 50% in 1 year!



California Energy Commission

- Online Training Series
 - www.energyvideos.com
 - Available for Over a Year
 - Thousands of visitors
 - Streaming or Downloadable





Online Training

- California Energy Commission
 - Energy Efficiency Standards for Residential and Nonresidential Buildings (AKA "Title 24")
- Building Departments Enforce



Before

- 500 + Jurisdictions
- Training at Central Location
 - Paying for Instructors
 - Traveling "Dog & Pony Show"
 - 20+ People Trained per Session
 - Many Could Not Make It
 - Lots of Paper (Handouts)
 - Not Cost Effective



What Happened

- 1999 Idea Online Training
- 2000/2001 Steve Easley
 - + iShow.com, D&R International
 - LP First Radiant Barriers Videos
- 2002 Commission Contract
 - Work with Commission Attorneys
 - Contracts Office



ssues

- Copyright
- Licensing Agreement
 - Ownership under the Contract
 - Cannot use Government Staff
 - Re-purposing images/audio
 - Who Owns What
- Private Sponsors on Public Sites



Text & Links

- Text
 - Relevant Standard
 - FAQ's
 - Benefits
 - Contact Us
- Links
 - Resources Online



Videos

- Videos 107 Online Today
 - Each = 1 minute to 15 minutes long
 - HVAC
 - Insulation
 - Fenestration
 - Water Heating
 - Renewable Energy
 - More....



Virtual Tour

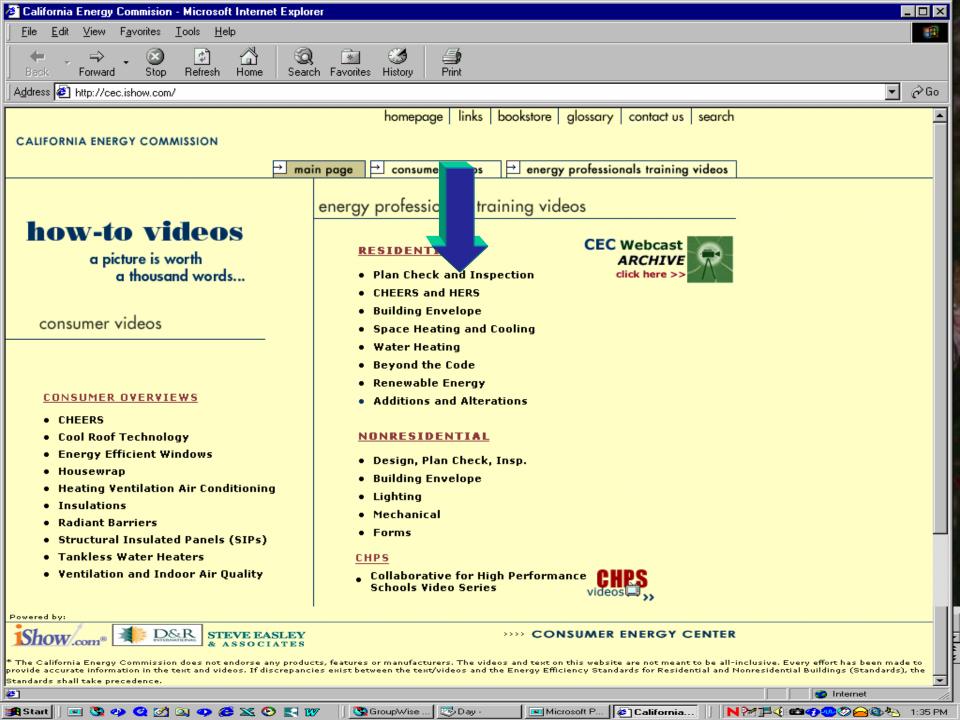
- Videos
- Text Links
- Webcast
- CHPS
 - Note: The following Virtual Tour is not in the Live presentation but is provided here for your use.

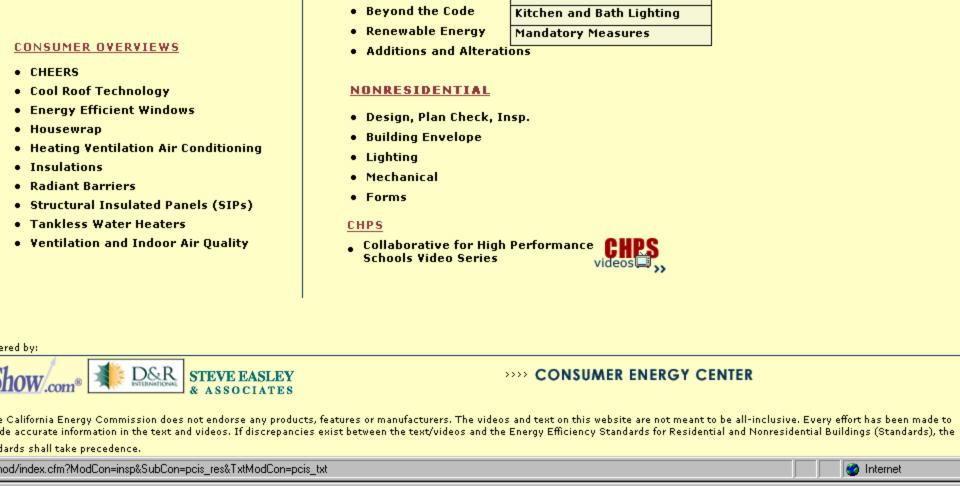


Text Links

www.energyvideos.com







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Forward

fress 🥙 http://cec.ishow.com/

consumer videos

Favorites:

Stop

a picture is worth

Tools

Refresh

viueus

a thousand words...

Home

Q

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History

RESIDENTIAL

Water Heating

CHEERS and HERS

Building Envelope

Search Favorites

Print

Plan Check and Inspec Plan Check

Inspection

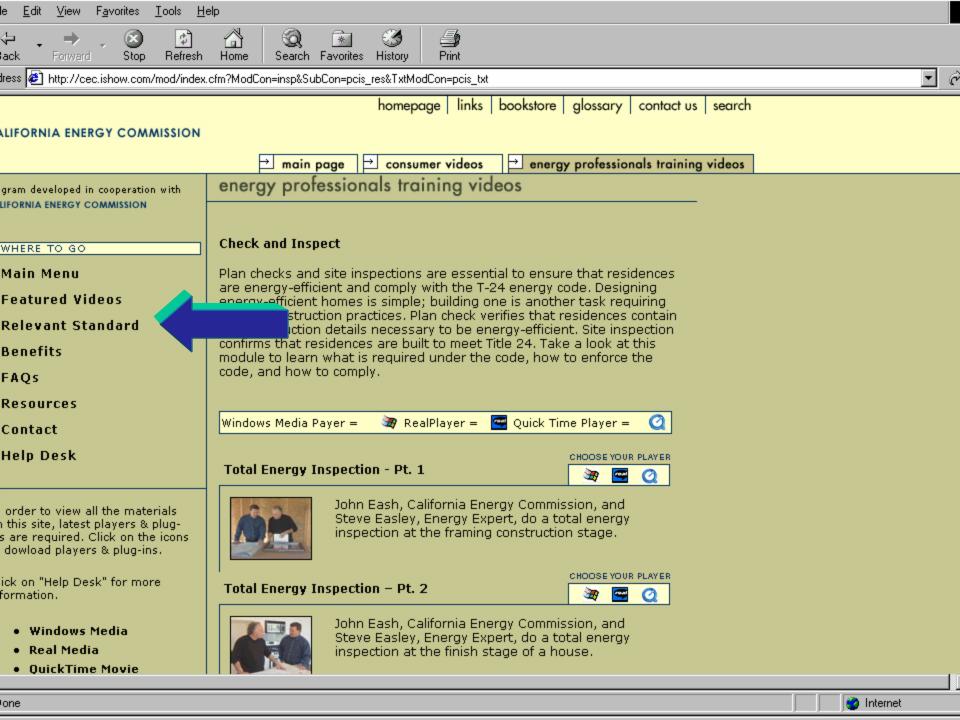
Water Heating Inspection

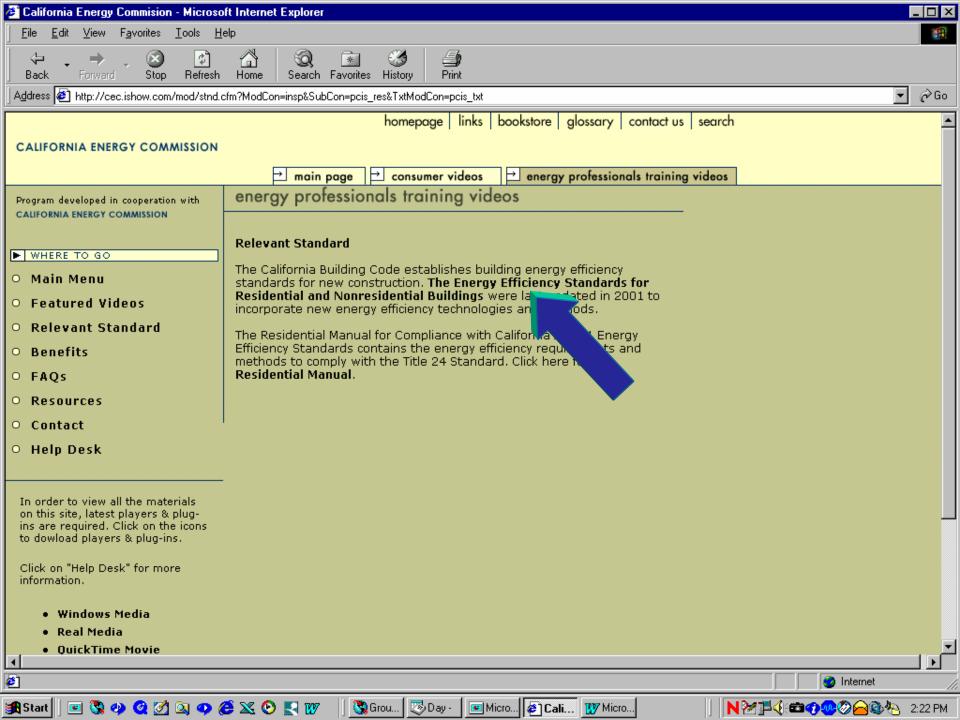
CABEC

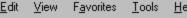
Space Heating and Co Certified Energy Analysts

CEC Webcast

ARCHIVE





















fress 🥰 http://www.energy.ca.gov/title24/standards/index.html





California Home

Welcome to the California Energy Commission

Related Links

Residential Manual

Non-Residential Manual

Residential ACM

Non-Residential ACM

Title 24 Home

Commission Links

Commission Home

Commission Info

Key Topics

Site Index

Links

Glossary

Contact Us

Title 24

Efficiency Division

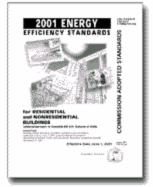
Energy Quest for Kids



Title 24, Part 6 * California's **Energy Efficiency Standards for** Residential and Nonresidential Buildings

The California Building Code establishes building energy efficiency standards for new construction (including requirements for entire new buildings, additions, atterations, and in nonresidential buildings, repairs). Since first established in 1977, the Building Energy Efficiency Standards (along with standards for energy efficiency in appliances) have helped Californians save more than \$11.3 billion in electricity and natural gas costs. The Standards are updated periodically to allow incorporation of new energy efficiency technologies and methods.

Printed copies of Title 24, Part 6 (and associated administrative requirements in Part 1) are available from the Energy Commission's publications unit by calling: 916-654-5200. Questions about the energy standards should backdressed to the Commission's Energy Efficiency Hot Line by calling, 4058 or toll free in California 800-772-3300.



Wednesday, May 7, 2003

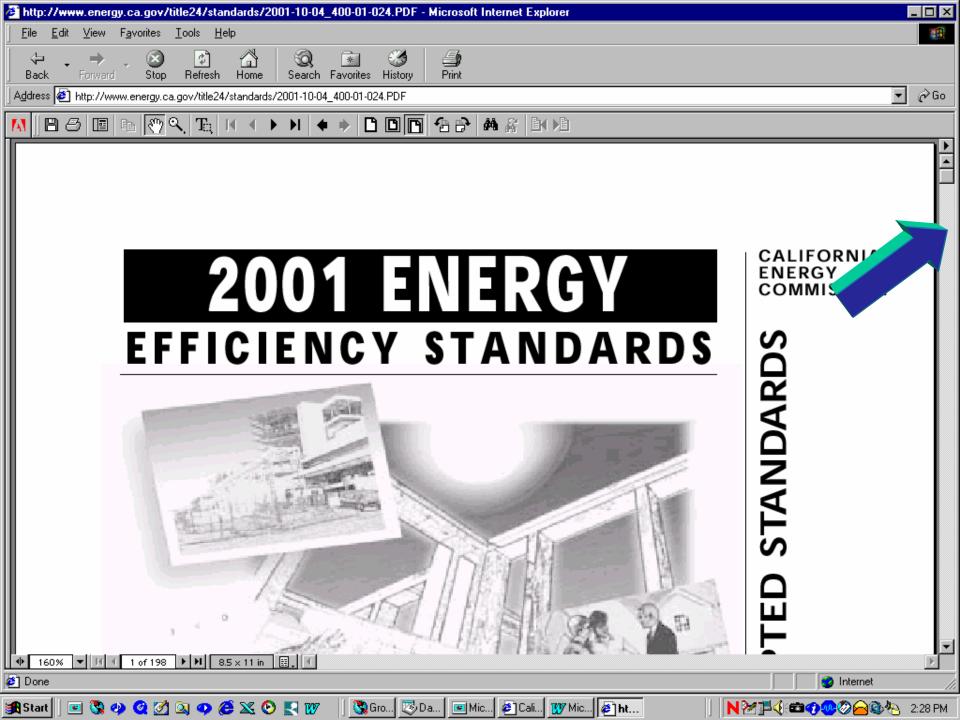
Copies of the Title 24 compliance forms for ential and nonresidential construction and the residential and nonresidential manual are also available of

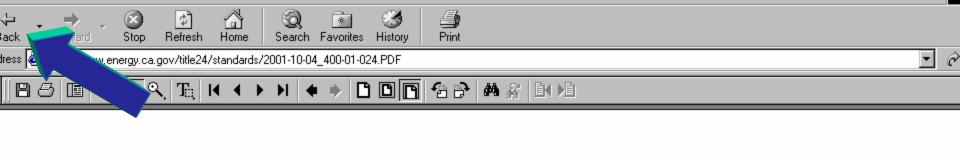


Download Title 24, Part 6 -- Energy Efficiency Standards for Residential and Nonresidential Buildings Publication Number: 400-01-024, August 2001, (Adobe Acrobat PDF file, 198 pages, 805 kilobytes)

Page Updated: 10/09/01

Note: Title 24, Part 6 refers only to Part 6 of the California Building Standards Administrative Code, which deals only with efficiency standards for residential and nonresidential buildings. The other parts of Title 24 do not deal with efficiency





2001 Building Energy Standards

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Tools

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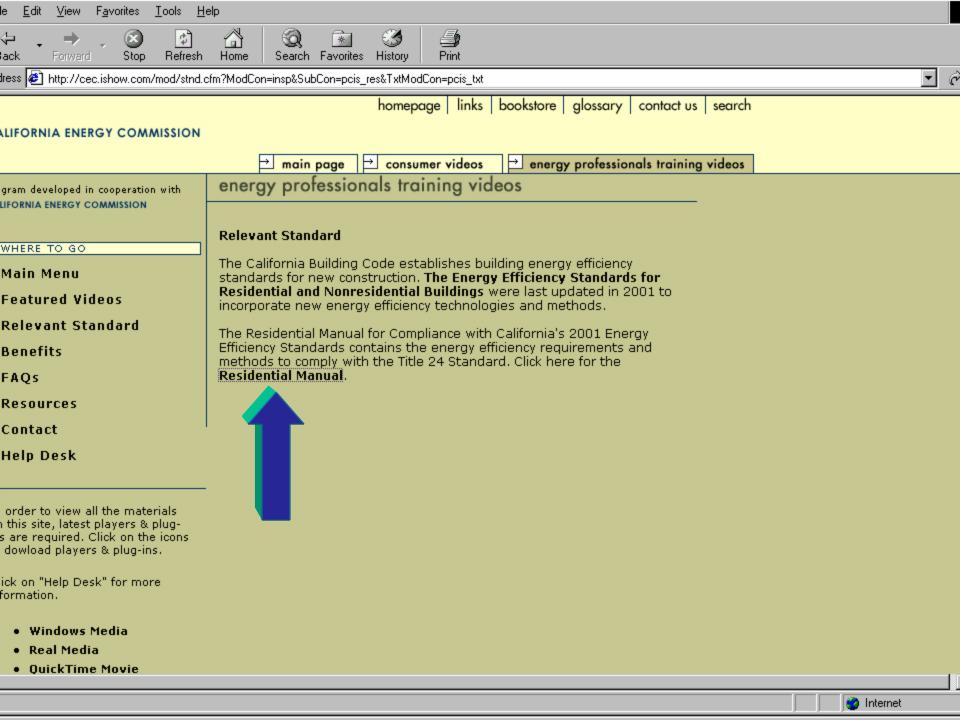
CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 1

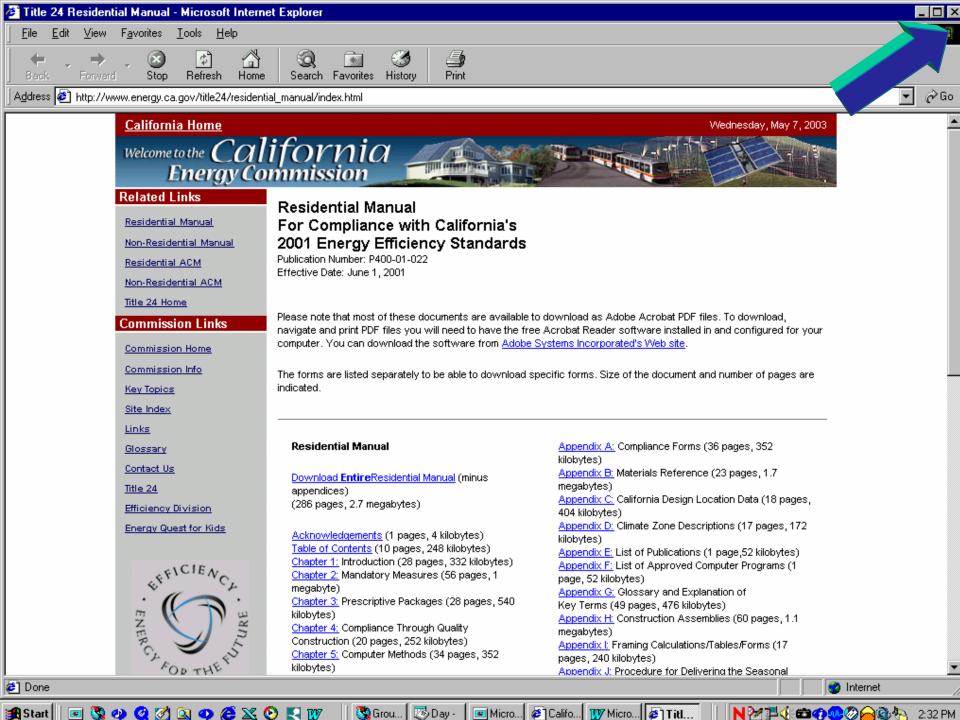
ARTICLE 1—ENERGY BUILDING REGULATIONS

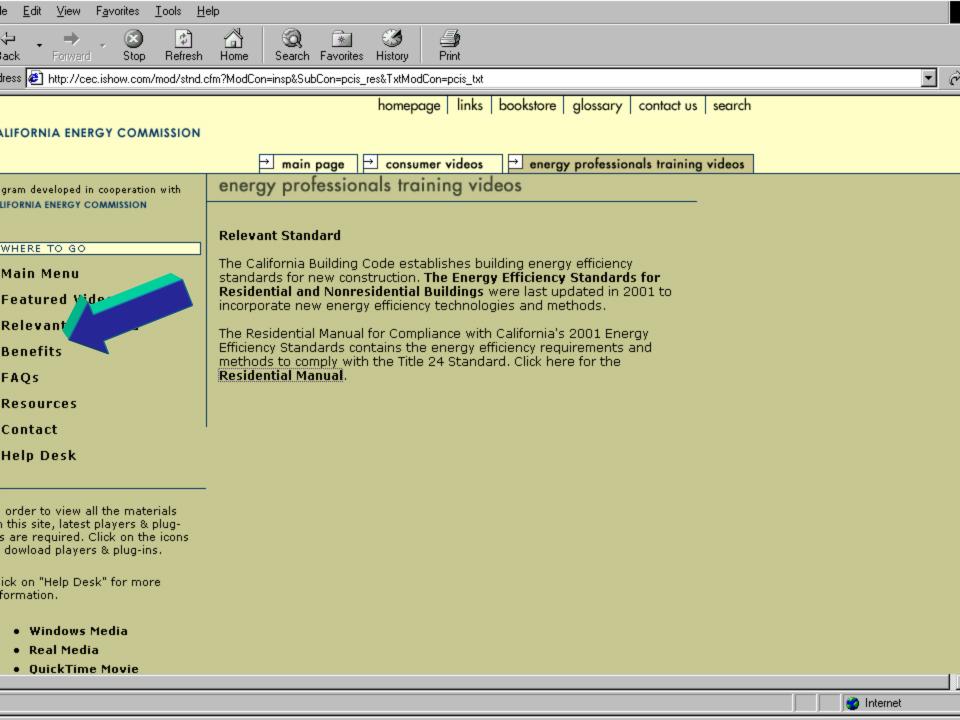
SECTION 10-101 – SCOPE

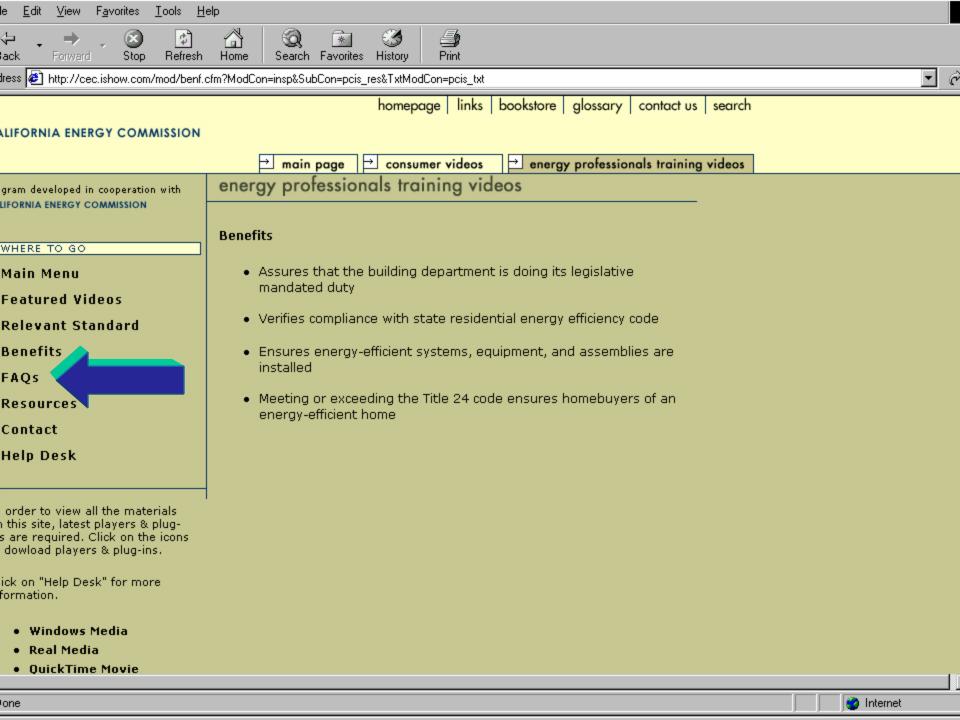
- (a) This article contains administrative regulations relating to the energy building regulations in Title 24, Part 6. This article applies to all residential and nonresidential buildings.
- (b) Nothing in this article lessens any necessary qualifications or responsibilities of licensed or registered building professionals or other designers or builders, or the duties of enforcement agencies that exist under state or local law.

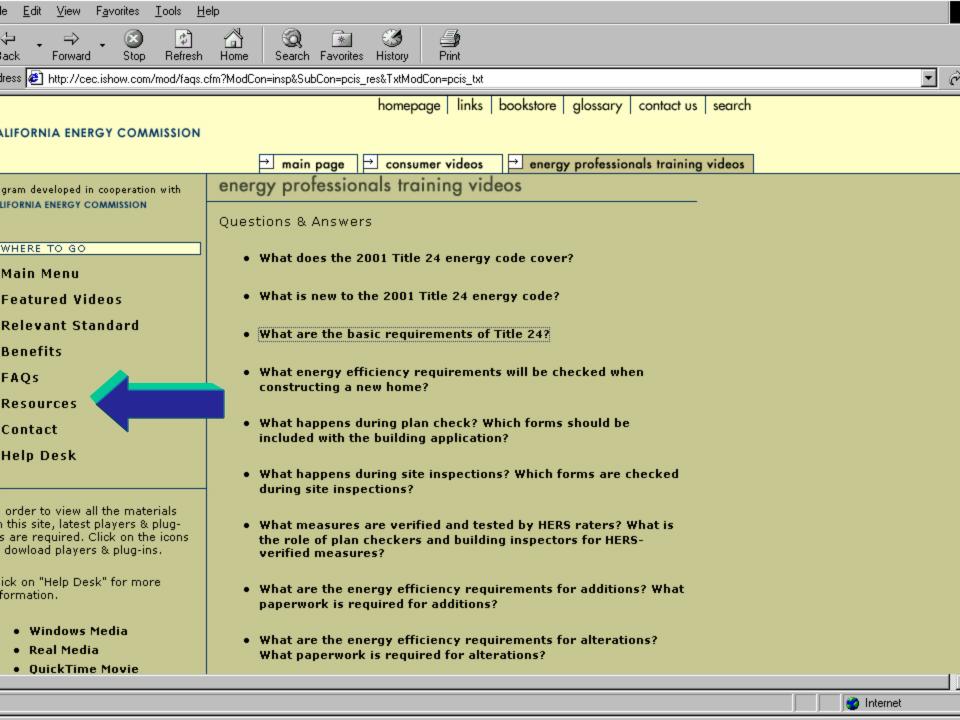
NOTE: Authority cited: Sections 25402 and 25402.1, Public Resources Code. Reference: Sections 25402 and 25402.1, Public Resources Code.

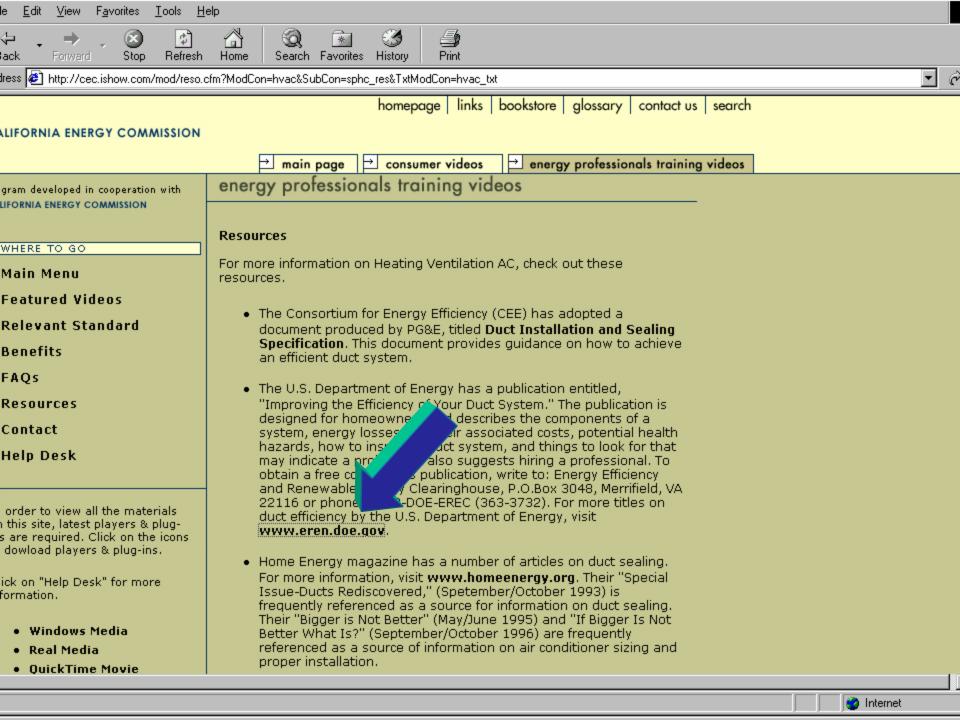




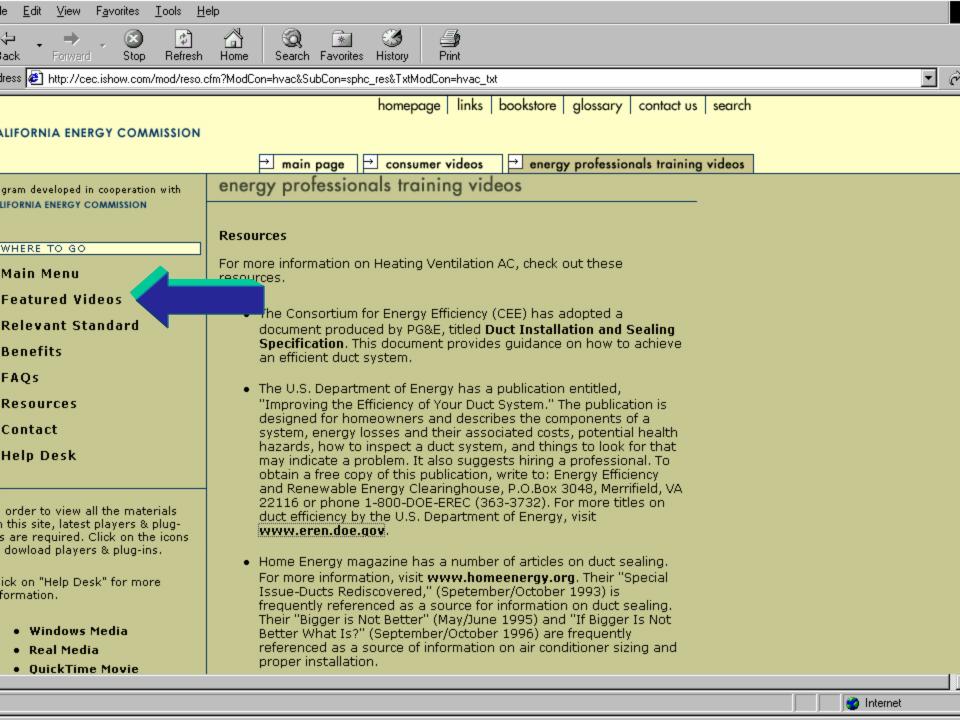


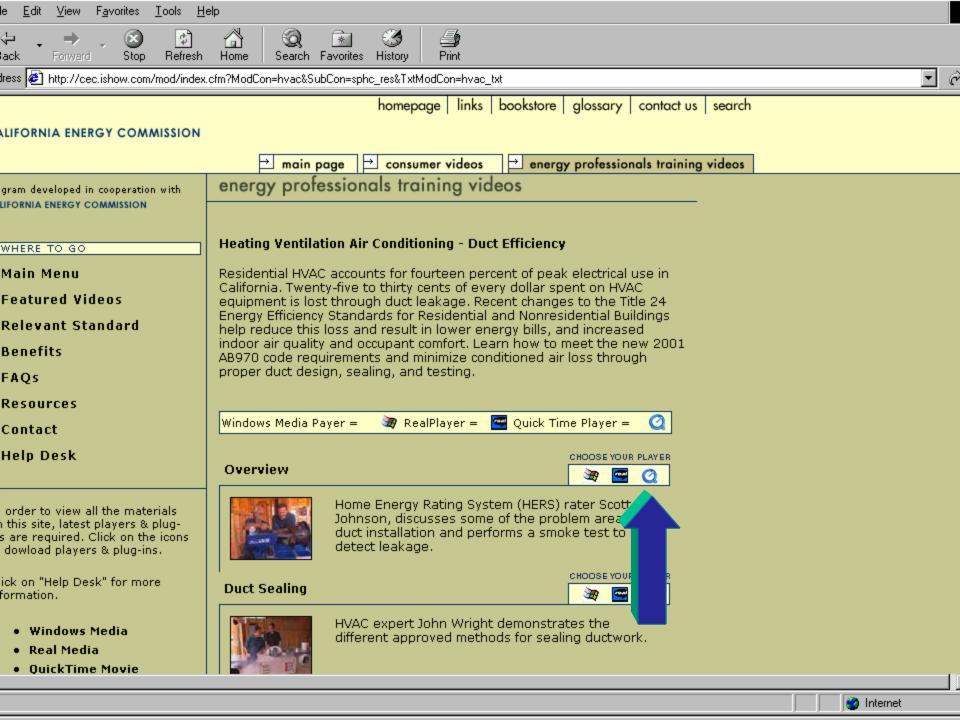


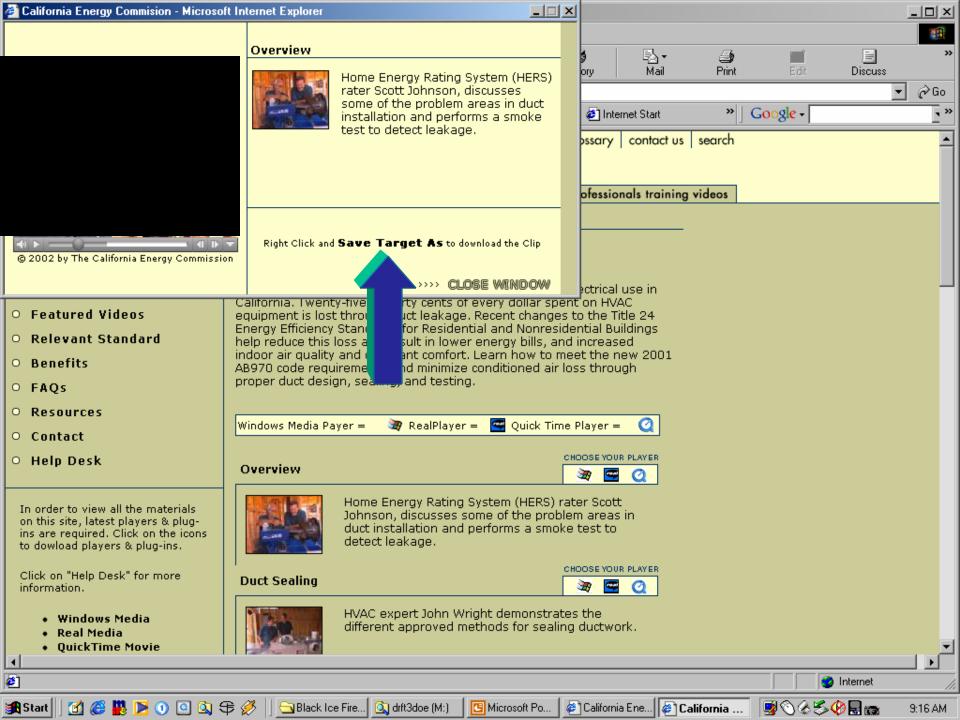




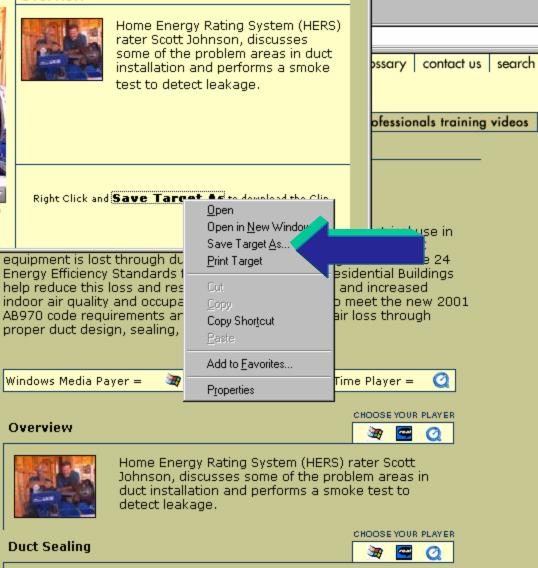












ick on "Help Desk" for more formation.

order to view all the materials

this site, latest players & plug-

s are required. Click on the icons

- Windows Media
- Real Media
- QuickTime Movie



HVAC expert John Wright demonstrates the different approved methods for sealing ductwork.

FAQS

Resources

Help Desk

Contact



By the Numbers

- Reaching Many Hundreds Each Day
- Complements On-Site Training
- Per Month
 - 8,000 Total <u>Hits</u>
 - 4,000 Total Plays
 - \$0.50 cost per play (Streaming)



Cost Per Segment

- Varies
- Sponsorship
- Very Cost Effective
- Convenient
- Entertaining
- Informative



<u>Funding</u>

- 30% Private Sector
- 70% Public Funding



Tips

- Host like Steve Easley
 - Knowledgeable
 - Script Outlines
 - Great On-Camera Presence
- Facilitator & Producer Director
 - Coordinates Shoots & Contracts
 - Directs & Produces



More Tips

- Great Teamwork + Trustworthy
 - Steve Easley (Building Media, Inc.)
 - Darren Harris, Phil de Marne, Craig Savage (Building Media, Inc.)
 - iShow.com, D&R International
- Government Contract Manager with "YES" Authority



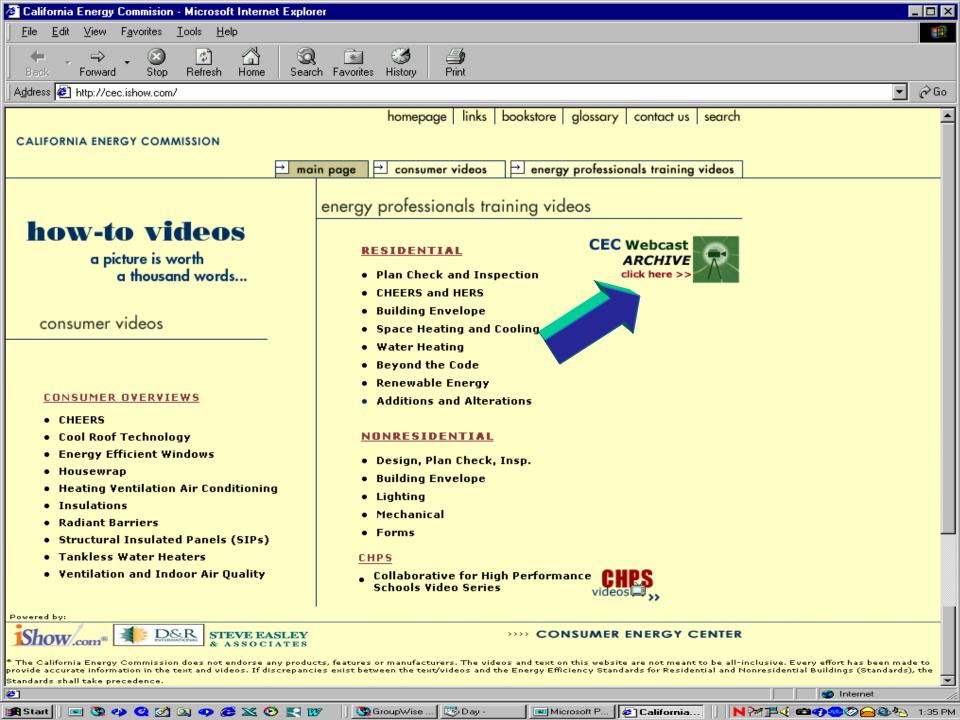
Even More Tips

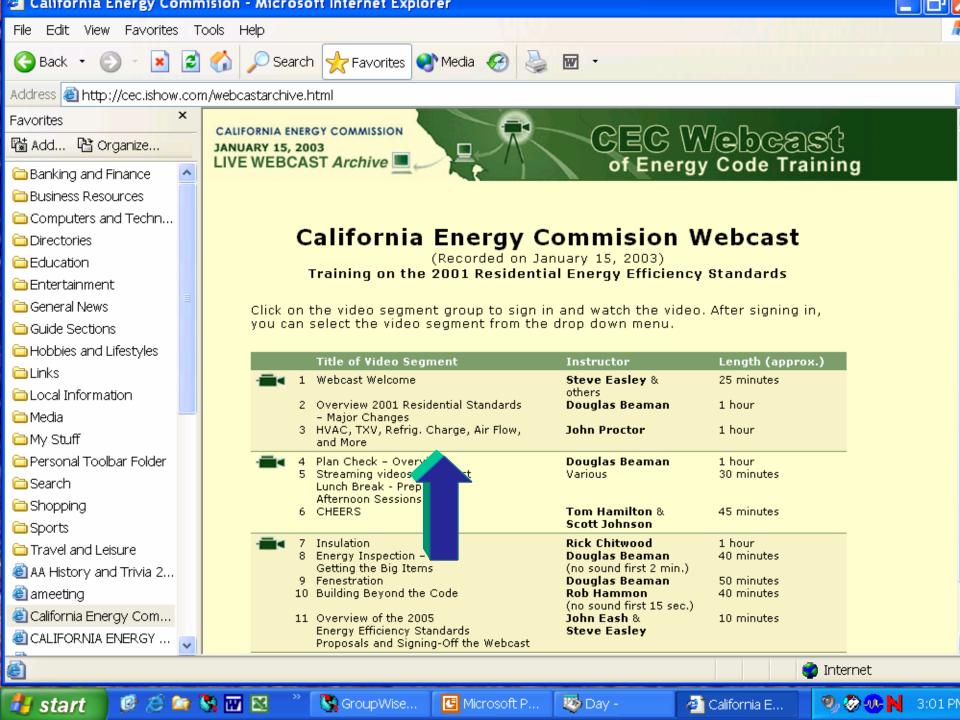
- Private Sector Sponsorship
 - No Commercials Allowed
 - Allow Repurpose w/Exceptions
 - Provide "Disclaimer"
- Once Removed from Main Public Web Site
 - "Consumer Energy Center"
 - Commission's Official Public/Private Partnership

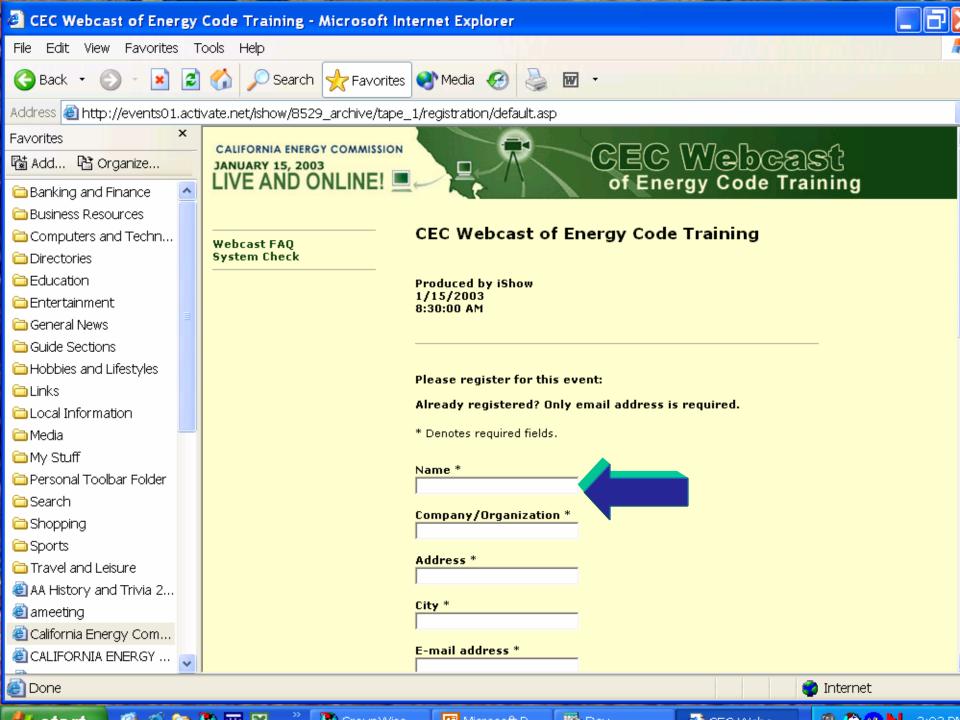


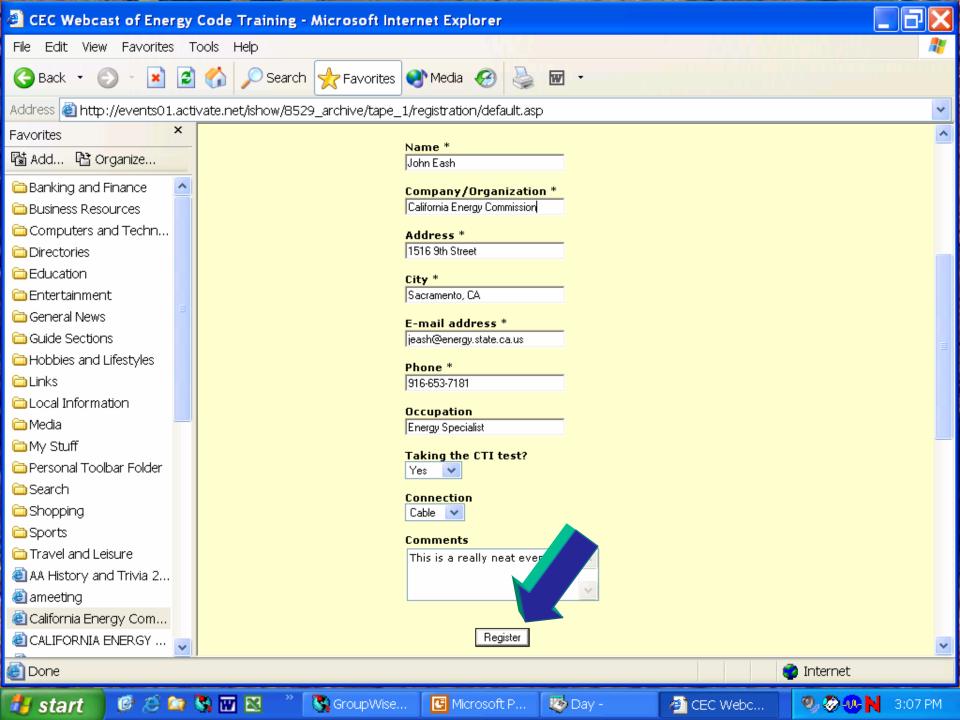
Webcast

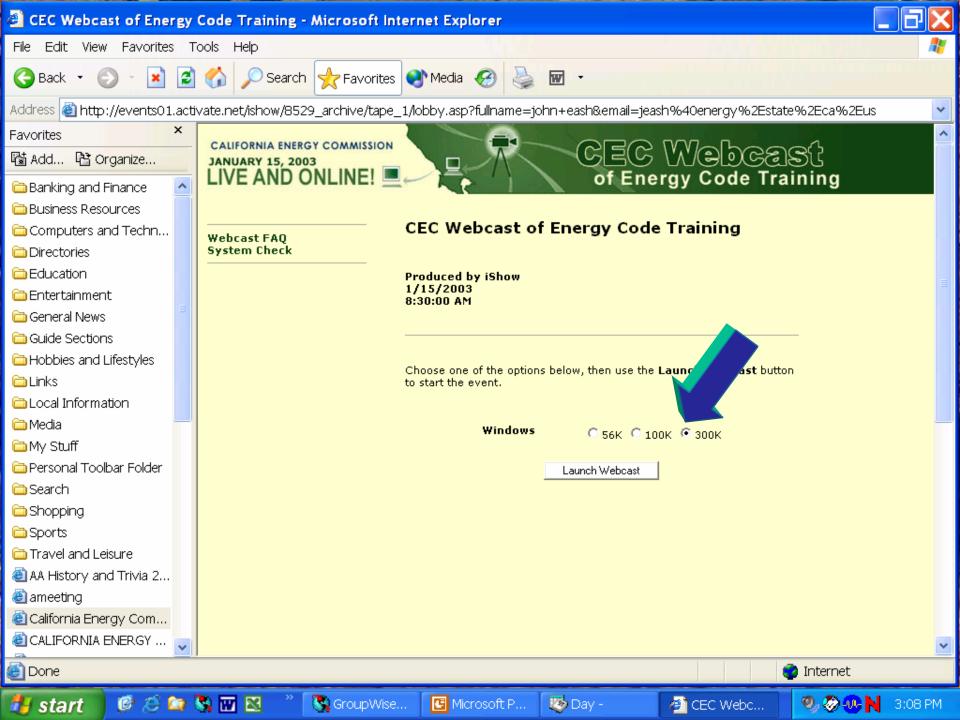
- January 15, 2003
- Interactive Distance Learning
 - 2 "Tests" Given/Auto-Corrected and Received
 - Continuing Ed. Credit from CALBO
- 300 Computers Online Live
 - 1,000 or More Total Viewers
 - Archived @ www.energyvideos.com
 - Note: The following Virtual Tour is not in the Live Presentation but is provided here for your use.



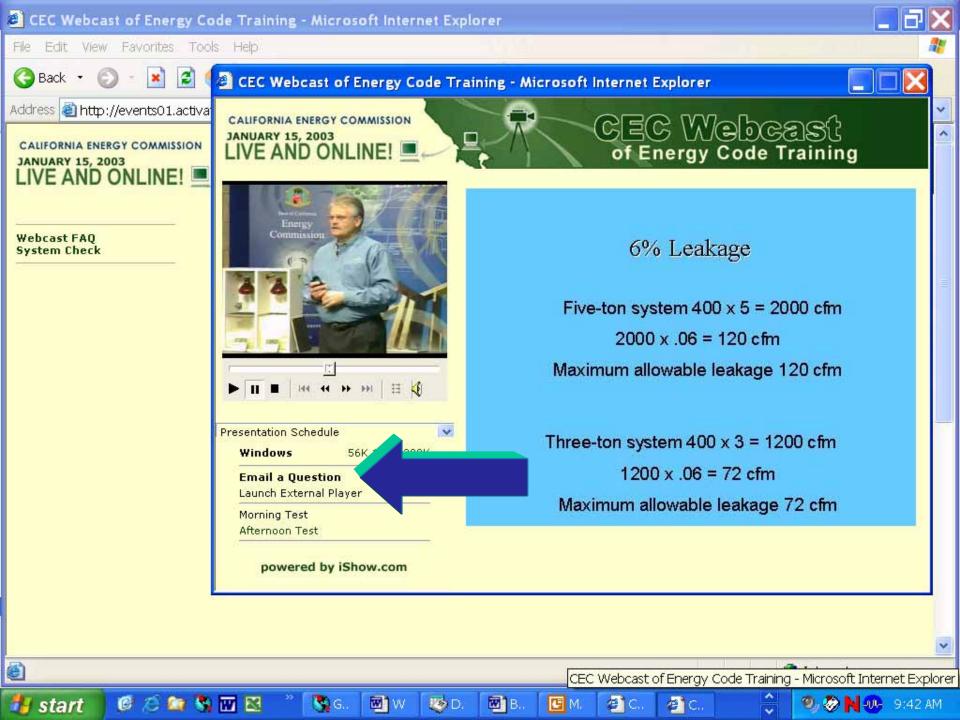


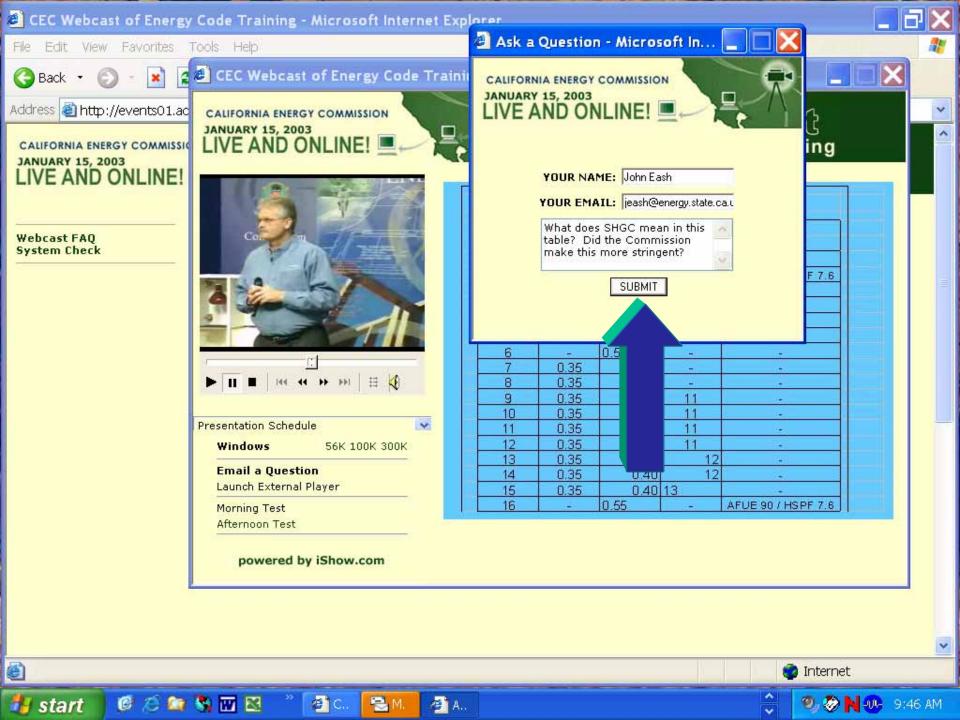


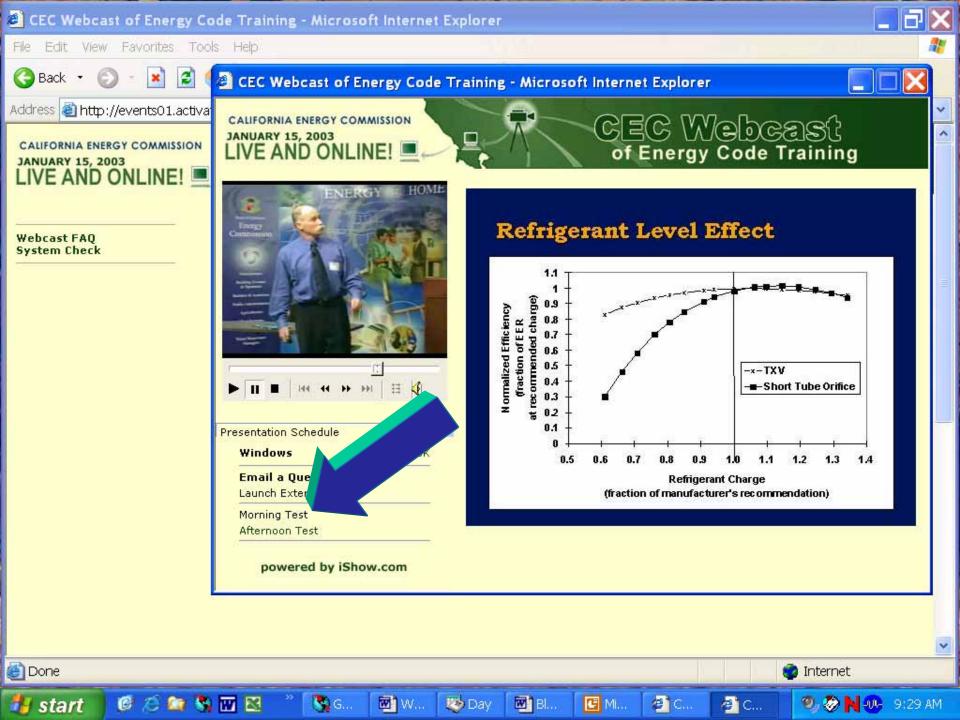


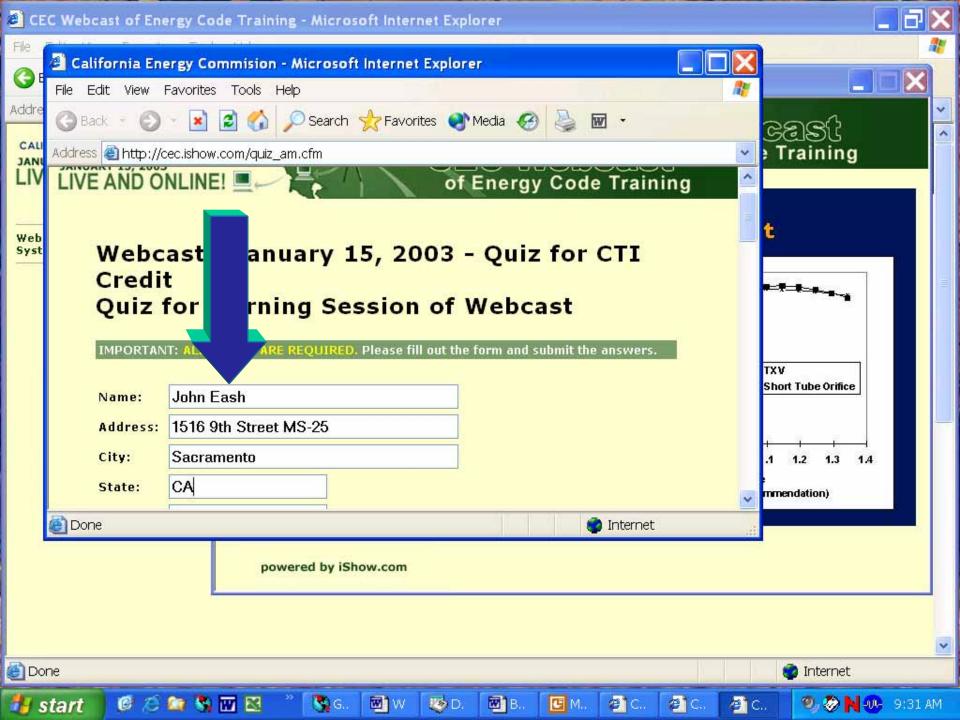


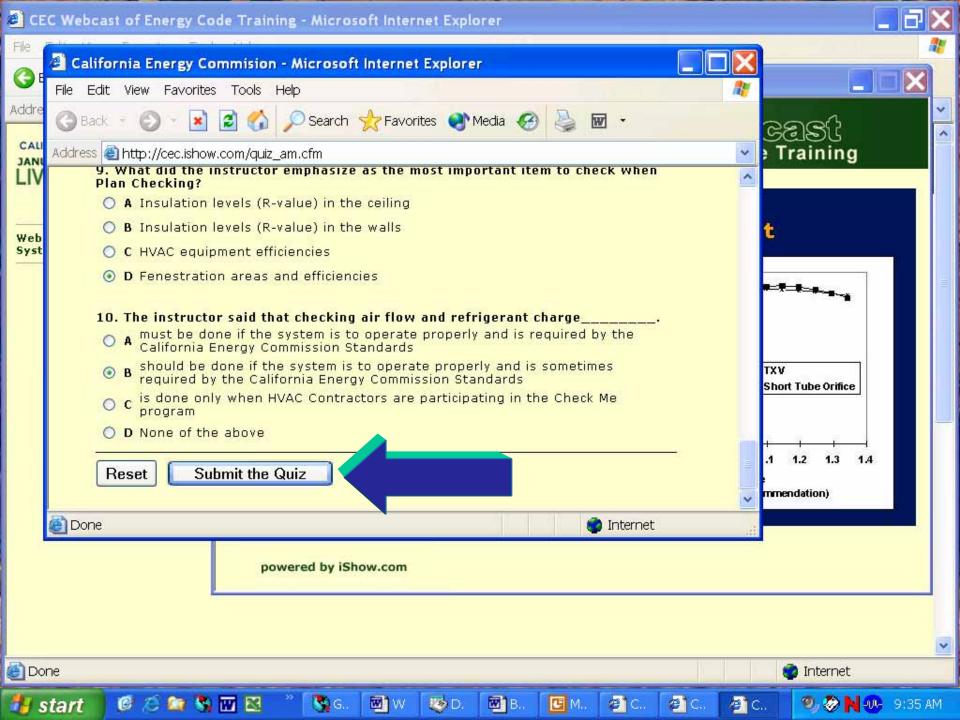


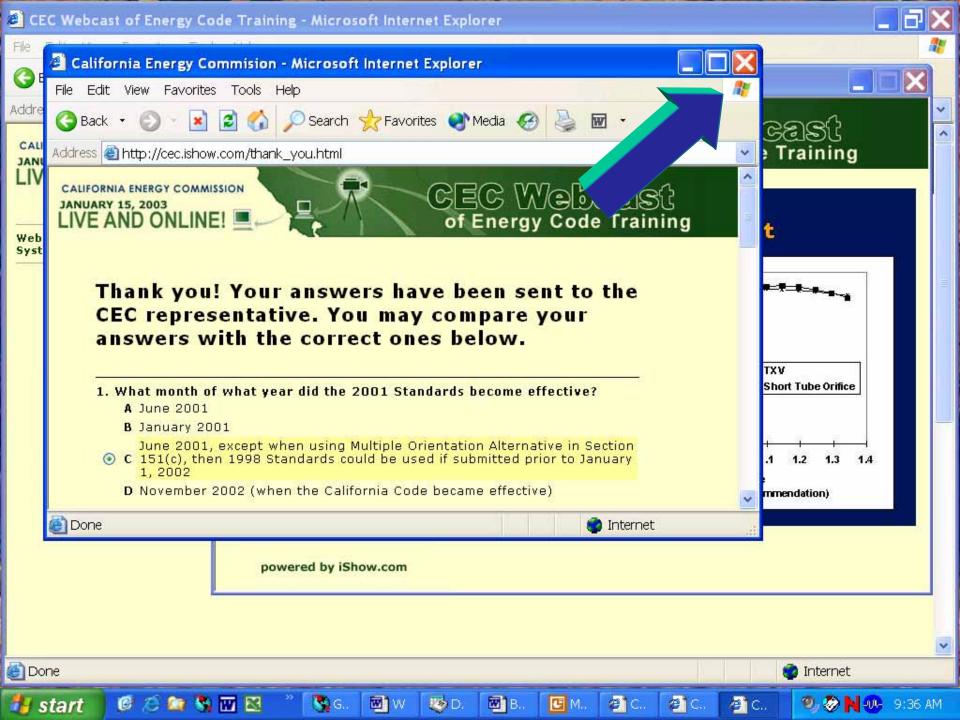


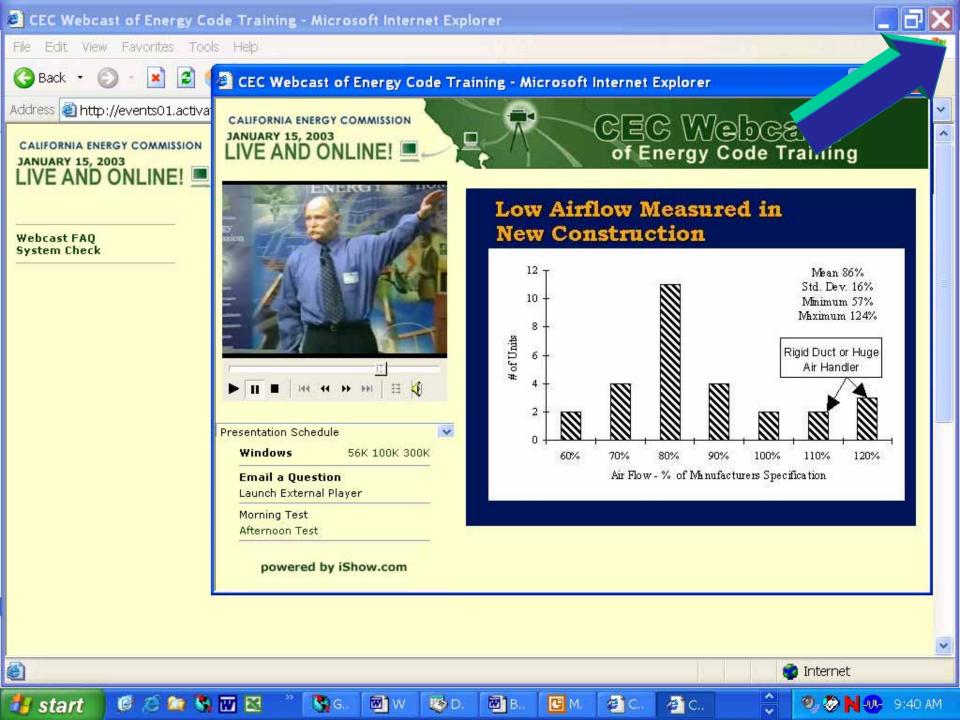














Webcast

- Event Planning Critical
 - Host Sites, Advance Planning, Good Instructors, Good Producer/Director
- Cost Effective
 - 300 Computers with up to 1,000 watching
- Cost Can vary from \$10k to \$40k+
- January 15th Cost = \$40/Person Trained



CHPS

- Collaborative for <u>High Performance</u>
 Schools
- Division of State Architect (DSA)
- Provided \$58k funding
- Interagency Agreement
- Commission Coordinated 9 Videos for DSA



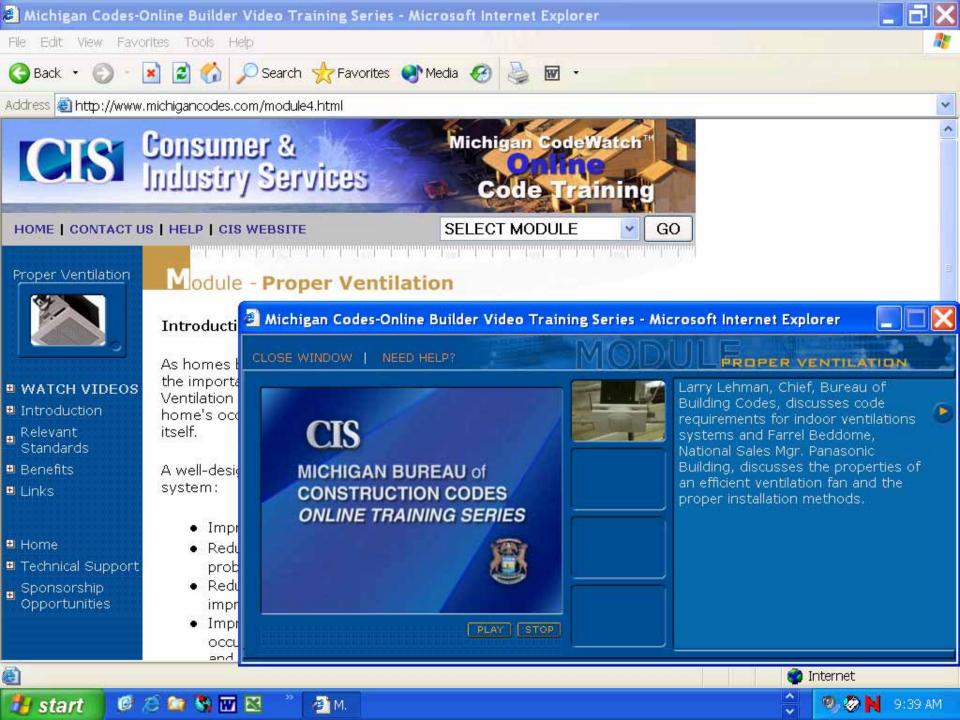
Video Hard Copies

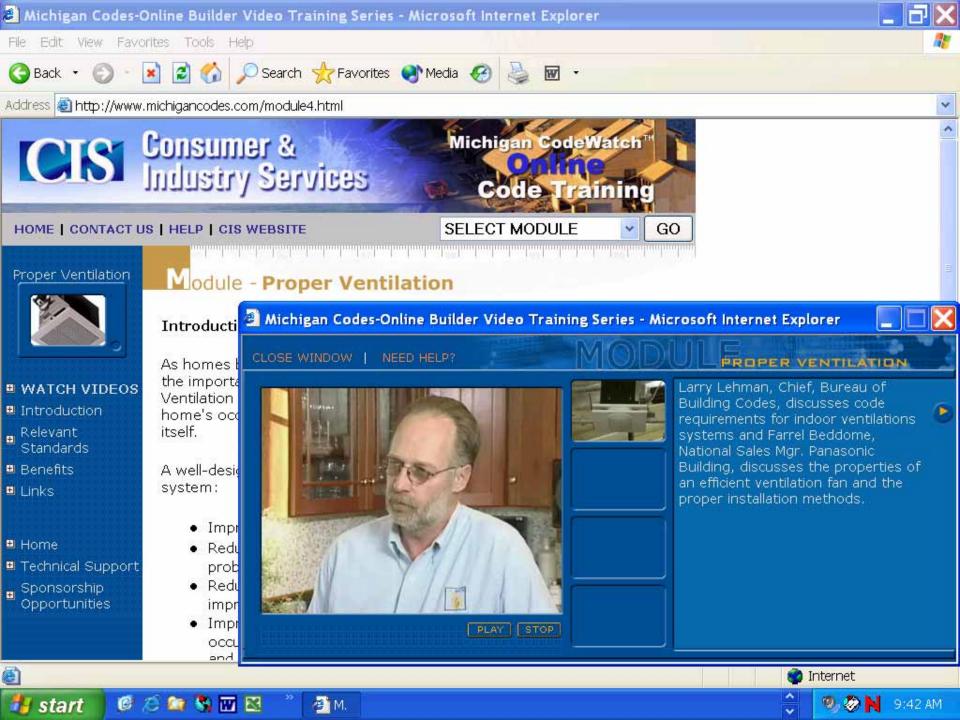
- Custom Copying and "Burning"
 - VHS Training Tapes
 - DVD's
 - CD-Rom's

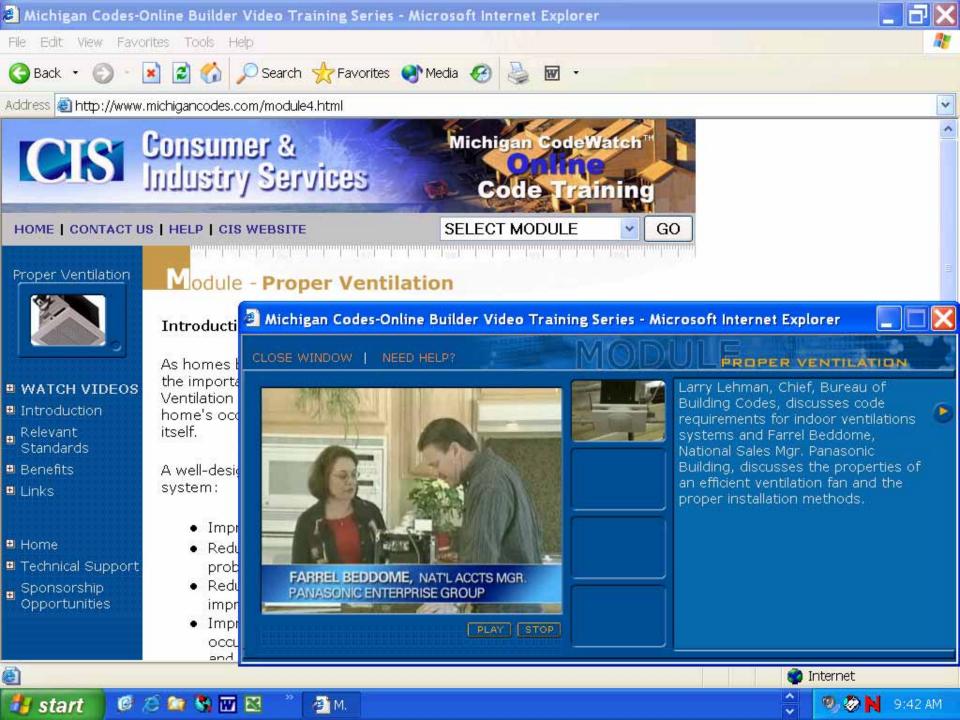


What's Next?

- Michigan
 - Already Online with Production Co.
 - See www.buildingmedia.com
 - Online Videos Modeled after CA
 - Repurposing CA Videos Already









The Solution

- Partner Together
 - Work with DOE to Establish National Interactive E-Training
 - Use California's Online Series as Starting Point
 - DOE and SEP Joint-Venture Proposals



Next Steps

- Start Now to Make 2004 the Year!!
 - Make a Decision
 - Work Together
 - Make Joint-Venture Proposals
 - Establish a National Training Web Site
 - MAKE MORE VIDEOS!



For More Info

- Contact
 - John Eash
 - California Energy Commission
 - **916-653-7181**
 - jeash@energy.state.ca.us